


PATENT COOPERATION TREATY

PCT

INTERNATIONAL PRELIMINARY REPORT ON PATENTABILITY

(Chapter II of the Patent Cooperation Treaty)

(PCT Article 36 and Rule 70)

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|--|--|---|--|--|
| Applicant's or agent's file reference 26355 | | FOR FURTHER ACTION | | See Form PCT/PEA/416 |
| International application No. PCT/EP2004/014756 | | International filing date (day/month/year) 23.12.2004 | | Priority date (day/month/year) 15.01.2004 |
| International Patent Classification (IPC) or national classification and IPC INV. B01D29/96 | | | | |
| Applicant UFI FILTERS S.P.A. | | | | |
| <p>1. This report is the international preliminary examination report, established by this International Preliminary Examining Authority under Article 35 and transmitted to the applicant according to Article 36.</p> <p>2. This REPORT consists of a total of 6 sheets, including this cover sheet.</p> <p>3. This report is also accompanied by ANNEXES, comprising:</p> <p>a. <input checked="" type="checkbox"/> sent to the applicant and to the International Bureau a total of 4 sheets, as follows:</p> <p><input type="checkbox"/> sheets of the description, claims and/or drawings which have been amended and are the basis of this report and/or sheets containing rectifications authorized by this Authority (see Rule 70.16 and Section 607 of the Administrative Instructions).</p> <p><input type="checkbox"/> sheets which supersede earlier sheets, but which this Authority considers contain an amendment that goes beyond the disclosure in the international application as filed, as indicated in item 4 of Box No. I and the Supplemental Box.</p> <p>b. <input type="checkbox"/> (sent to the International Bureau only) a total of (indicate type and number of electronic carrier(s)) , containing a sequence listing and/or tables related thereto, in electronic form only, as indicated in the Supplemental Box Relating to Sequence Listing (see Section 802 of the Administrative Instructions).</p> | | | | |
| <p>4. This report contains indications relating to the following items:</p> <p><input checked="" type="checkbox"/> Box No. I Basis of the report</p> <p><input type="checkbox"/> Box No. II Priority</p> <p><input type="checkbox"/> Box No. III Non-establishment of opinion with regard to novelty, inventive step and industrial applicability</p> <p><input type="checkbox"/> Box No. IV Lack of unity of invention</p> <p><input checked="" type="checkbox"/> Box No. V Reasoned statement under Article 35(2) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement</p> <p><input type="checkbox"/> Box No. VI Certain documents cited</p> <p><input type="checkbox"/> Box No. VII Certain defects in the international application</p> <p><input checked="" type="checkbox"/> Box No. VIII Certain observations on the international application</p> | | | | |
| Date of submission of the demand 10.11.2005 | | Date of completion of this report 19.05.2006 | | |
| Name and mailing address of the international preliminary examining authority:  European Patent Office D-80298 Munich Tel. +49 89 2399 - 0 Tx: 523656 epmu d Fax: +49 89 2399 - 4465 | | Authorized officer Hilt, D Telephone No. +49 89 2399-6577 | | |



**INTERNATIONAL PRELIMINARY REPORT
ON PATENTABILITY**

10/585724
International application No.
PCT/EP2004/014756

1AP20 Rec'd PCT/PTO 12 JUL 2006

Box No. I Basis of the report

1. With regard to the **language**, this report is based on the international application in the language in which it was filed, unless otherwise indicated under this item.
- ☐ This report is based on translations from the original language into the following language , which is the language of a translation furnished for the purposes of:
- ☐ international search (under Rules 12.3 and 23.1(b))
 - ☐ publication of the international application (under Rule 12.4)
 - ☐ international preliminary examination (under Rules 55.2 and/or 55.3)
2. With regard to the **elements*** of the international application, this report is based on *(replacement sheets which have been furnished to the receiving Office in response to an invitation under Article 14 are referred to in this report as "originally filed" and are not annexed to this report)*:

Description, Pages

| | |
|-----|--|
| 2-7 | as originally filed |
| 1 | received on 11.11.2005 with letter of 10.11.2005 |

Claims, Numbers

| | |
|-----|--|
| 1-9 | received on 11.11.2005 with letter of 10.11.2005 |
|-----|--|

Drawings, Sheets

| | |
|---------|---------------------|
| 1/4-4/4 | as originally filed |
|---------|---------------------|

- ☐ a sequence listing and/or any related table(s) - see Supplemental Box Relating to Sequence Listing
3. ☐ The amendments have resulted in the cancellation of:
- ☐ the description, pages
 - ☐ the claims, Nos.
 - ☐ the drawings, sheets/figs
 - ☐ the sequence listing (*specify*):
 - ☐ any table(s) related to sequence listing (*specify*):
4. ☐ This report has been established as if (some of) the amendments annexed to this report and listed below had not been made, since they have been considered to go beyond the disclosure as filed, as indicated in the Supplemental Box (Rule 70.2(c)).
- ☐ the description, pages
 - ☐ the claims, Nos.
 - ☐ the drawings, sheets/figs
 - ☐ the sequence listing (*specify*):
 - ☐ any table(s) related to sequence listing (*specify*):

* If item 4 applies, some or all of these sheets may be marked "superseded."

**INTERNATIONAL PRELIMINARY REPORT
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International application No.
PCT/EP2004/014756

Box No. V Reasoned statement under Article 35(2) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement

1. Statement

| | | |
|-------------------------------|-------------|---------|
| Novelty (N) | Yes: Claims | 1-9 |
| | No: Claims | |
| Inventive step (IS) | Yes: Claims | 3-6 |
| | No: Claims | 1,2,7-9 |
| Industrial applicability (IA) | Yes: Claims | 1-9 |
| | No: Claims | |

2. Citations and explanations (Rule 70.7):

see separate sheet

Box No. VIII Certain observations on the international application

The following observations on the clarity of the claims, description, and drawings or on the question whether the claims are fully supported by the description, are made:

see separate sheet

INTERNATIONAL PRELIMINARY
REPORT ON PATENTABILITY
(SEPARATE SHEET)

International application No.

PCT/EP2004/014756

Re Item V

Reference is made to the following documents:

- D1: US 2003/196939 A1 (BINDER WALTER ET AL) 23 October 2003 (2003-10-23)
D2: WO 02/100511 A (UFI UNIVERSAL FILTER INTERNATIONAL S.P.A; GIRONDI, GIORGIO) 19 December 2002 (2002-12-19)
D3: US 5 589 060 A

The document D3 was not cited in the international search report. A copy of the document is appended hereto.

1- ARTICLE 33 (3) PCT - INVENTIVE STEP

The present application does not meet the criteria of Article 33(1) PCT, because the subject-matter of claims 1 does not involve an inventive step in the sense of Article 33(3) PCT.

1.1- Independent apparatus claim 1

The document D2, which is considered to represent the most relevant state of the art, discloses a filter for internal combustion engine liquids from which the subject-matter of claim 1 differs in that that part (10) of the system associated with the cartridge **is located within the central compartment** of this latter, and that part (111) of the system associated with the cover is dimensioned and shape to be able to be inserted into the preceding and coupled thereto, where it retains the facing end of the cartridge in the immediate vicinity of the cover.

The problem to be solved by the present invention may therefore be regarded as to propose a filter which permits to maximise the filtering surface present in the cavity of the filter housing (page 2 lines 6-12).

This is achieved by locking one of the ends of the filter cartridge in the immediate vicinity of the cover (page 3 line 5).

The solution proposed in claim 17 of the present application cannot be considered as involving an inventive step (Article 33(3) PCT) for the following reasons:

The feature "locating the snap connection system within the central compartment of the toroidal filter cartridge" is merely one of several straightforward possibilities from which the skilled person would select, in accordance with circumstances, without the exercise of inventive skill, in order to solve the problem posed (see doc. D1, fig.1; doc D3, fig. 1,4 and 5)

1.2- Dependent claims 2,7-9

Dependent claims 2,7-9 do not contain any features which, in combination with the features of any claim to which they refer, meets the requirements of the PCT in respect of inventive step.

1.3- Dependent claim 3-6

The skilled person would not regard as a normal option to include the features of the dependent claims 3-6 in the apparatus disclosed in the document D1 in order to solve the problem posed. So independent claims 3-6 meet the requirements of the PCT with respect to novelty and inventive step.

Re Item VIII

The application does not meet the requirements of Article 6 PCT, because claims 5, 6, 8 are not clear.

Claim 5 refers to the feature "predetermined angle for releasing the cartridge" which lacks antecedent basis, since it has not been defined in claims 1,2,3 and 4.

Claim 6 refers to the features "annular body", "recesses", "recess" which lack antecedent basis, since they have not been defined in claim 1.

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International application No.

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Claim 8 refers to the feature "a part of an annular body" which lacks antecedent basis, since it has not been defined in claims 1 and 7.